## **CLAIMS**

Please amend the claims as follows:

- 1.-19. (Canceled)
- 20. (Currently amended) A method for decreasing drug resistance in a target plant cell comprising introducing to the cell a drug resistance-inhibiting amount of an ecto-phosphatase inhibitory molecule in conjunction with a drug.
- 21.-24. (Canceled)
- 25. (Previously presented) The method of claim 20, further comprising down-regulating an ABC transporter in said cell.
- 26. (Previously amended) The method of claim 20, wherein said ecto-phosphatase is *Pisum sativum* apyrase.
- 27. (Previously amended) The method of claim 25, wherein the ABC transporter is *Arabidopsis thaliana* AtPGP-1.
- 28.-31. (Canceled)
- 32. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula I.
- 33. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula II.
- 34. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula III.

- 35. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula IV.
- 36. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula V.
- 37. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula VI.
- 38. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula VII.
- 39. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula VIII.
- 40. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula IX.
- 41. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula X.
- 42. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XI.
- 43. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XII.
- 44. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XIII.

- 45. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XIV.
- 46. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XV.
- 47. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XVI.
- 48. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XVII.
- 49. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XVIII.
- 50. (Previously presented) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is a molecule having Formula XIX.
- 51. (Previously presented) The method of claim 20, wherein the ecto-phosphatase inhibitory molecule is selected from the group consisting of molecules having the Formulae I through XIX:

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II

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IV

V

VI

VII

VIII

IX

X

XI

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XII

XIII

XIV

XV

XVI

XVII

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XVIII

XIX

52. (New) The method of claim 51, wherein the ecto-phosphatase inhibitory molecule is  $\alpha-\beta$  methyleneadenosine 5' diphosphate.

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